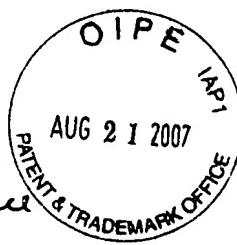


August 17, 2007

IFW

Daniel C. Crane, Primary Patent Examiner  
United States Patent and Trademark Office  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450



Applicant: Vincent Craig Olsen

Application No.: 10/718,013

Art Unit: 3725

Filing Date: 11/21/2003

Figures and Notes for Interview  
to be held by telephone on 8-22-07  
at 2:00 PM

Mr. Crane:

I have included below some figures and notes to aide in our discussion during the interview scheduled for 8-22-07. I will attempt to call you at 2:00 PM that day, and I will call back every 15-20 minutes until I get through. I look forward to discussing my application with you.

Sincerely,

Vincent Olsen

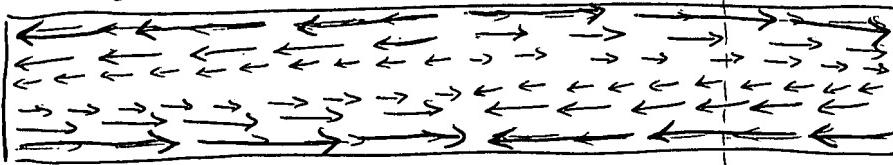
Pure bending moment:



Section A-A

outside of bend in tension

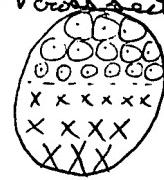
Center of  
middle  
cross section  
has no stress



inside of bend in compression

A

Direction of  
stress and plastic  
deformation over the  
cross section

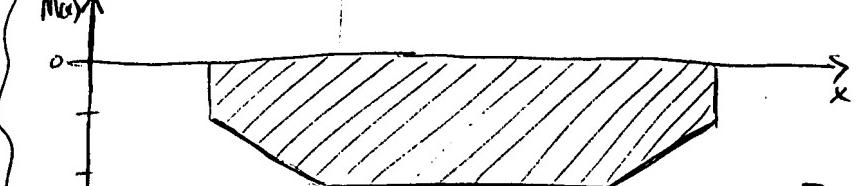
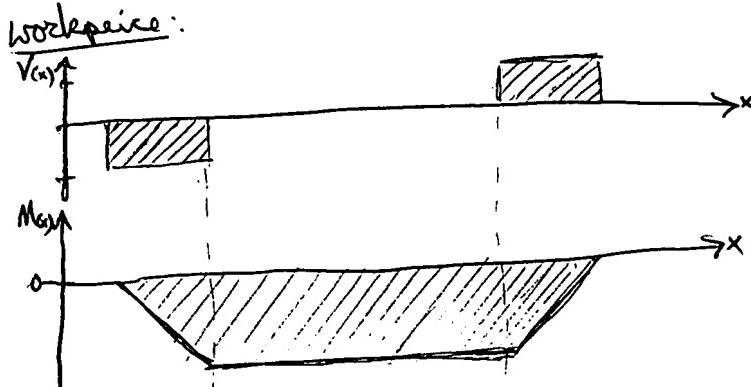
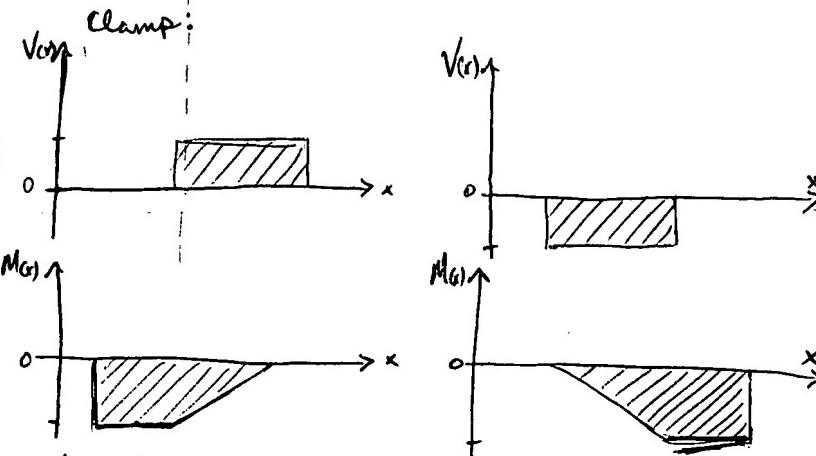
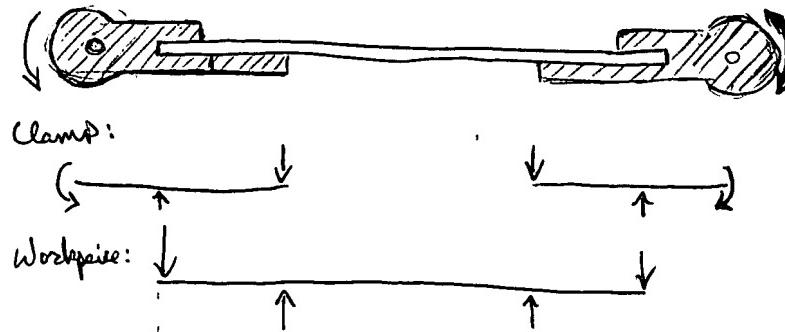
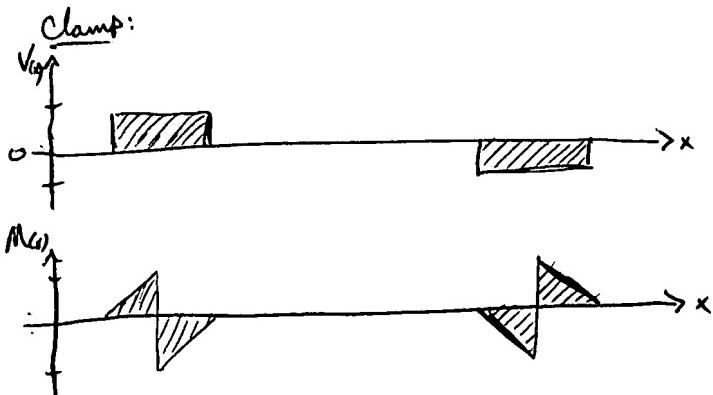
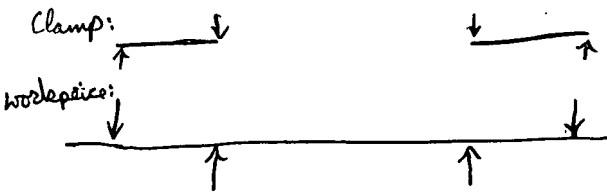


Distribution of Stress  
and plastic deformation  
over the cross section

~~Free body diagrams and stress graph shapes~~

The present application:

Leese 3,831,419:



# Request Form

(Forma de Solicitud)

Name: \_\_\_\_\_

(Nombre)

Housing Area: \_\_\_\_\_  
(# de Celda)

ID #: \_\_\_\_\_

(# de Identificacion)

Work Assignment: \_\_\_\_\_

(Trabajo)

- Case Manager
- Laundry
- Education
- Kitchen
- Notary Service
- Offender Accounts
- Commissary
- Other \_\_\_\_\_

Employee Name: \_\_\_\_\_

(Nombre de Empleado)

Action Requested:

(Accion Requerida)

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Firm) (Fecha)

Action Taken:

(Accion Tomada)

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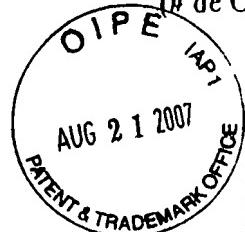
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Employee Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Firma de Empleado) (Fecha)

Attachment D -

Revised 10/20/06



## Bending Operations:

### Mode of torque creation:

#### The present application:

- the preferred embodiment of torque creation is an electric motor connected to a torque increasing gear box axially connected to the torque-transferring material clamps.

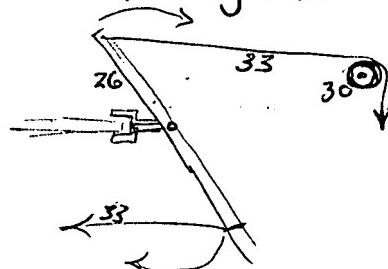


This creates a constant torque and a constant ~~angle~~ rate of rotational displacement of the torque transferring material clamp, and hence constant rates of deformation.



#### lease

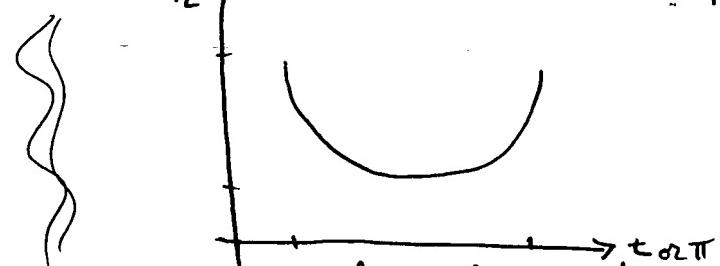
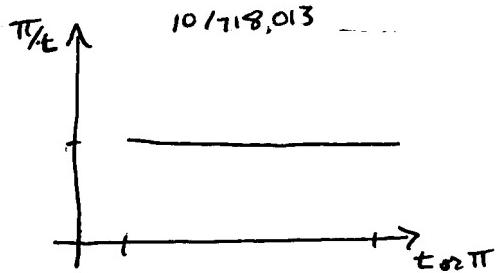
- The material clamp is connected to a lever<sup>(26)</sup> that is pulled through an arc by a cable (33) that is pulled from a stationary pulley (30).



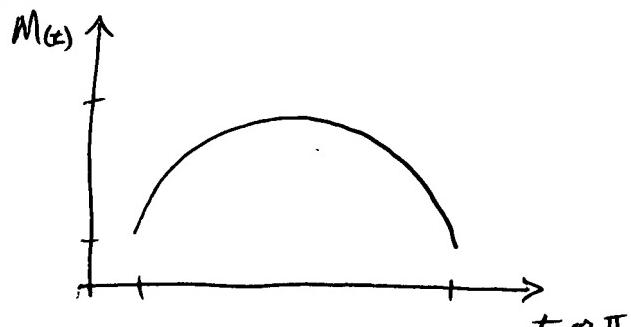
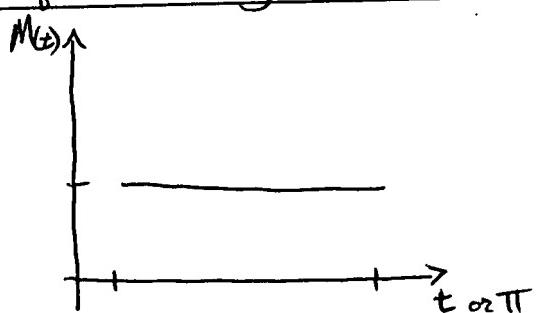
This creates a torque and a rate of rotational displacement of the torque transferring material clamp that changes throughout the bending process as the ~~angle~~ lever rotates and the angle between the cable and the lever changes.

The bend process ~~is~~ is initially rapid rotational displacement and low torque, then slow displacement and high torque, and finally rapid displacement and low torque.

### \* Rate of Rotational Displacement and Rate of Bending as a function of time or rotational displacement



### \* Torque or Bending Moment as a function of time or rotational displacement



# Request Form (Forma de Solicitud)

Name: \_\_\_\_\_

(Nombre)

Housing Area: \_\_\_\_\_

(# de Celda)

- Case Manager
- Laundry
- Education
- Kitchen
- Notary Service
- Offender Accounts
- Commissary
- Other \_\_\_\_\_

ID #: \_\_\_\_\_

(# de Identificacion)

Work Assignment: \_\_\_\_\_

- (Trabajo)
- Job Coordinator
- Classification
- Warden
- Assistant Warden
- Mail
- Phones
- Law Library

Employee Name: \_\_\_\_\_

(Nombre de Empleado)

Action Requested:

(Accion Requerida)

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(Firm)

(Fecha)

Action Taken:

(Accion Tomado)

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Employee Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(Firma de Empleado)

(Fecha)

Attachment D -

Revised 10/20/06